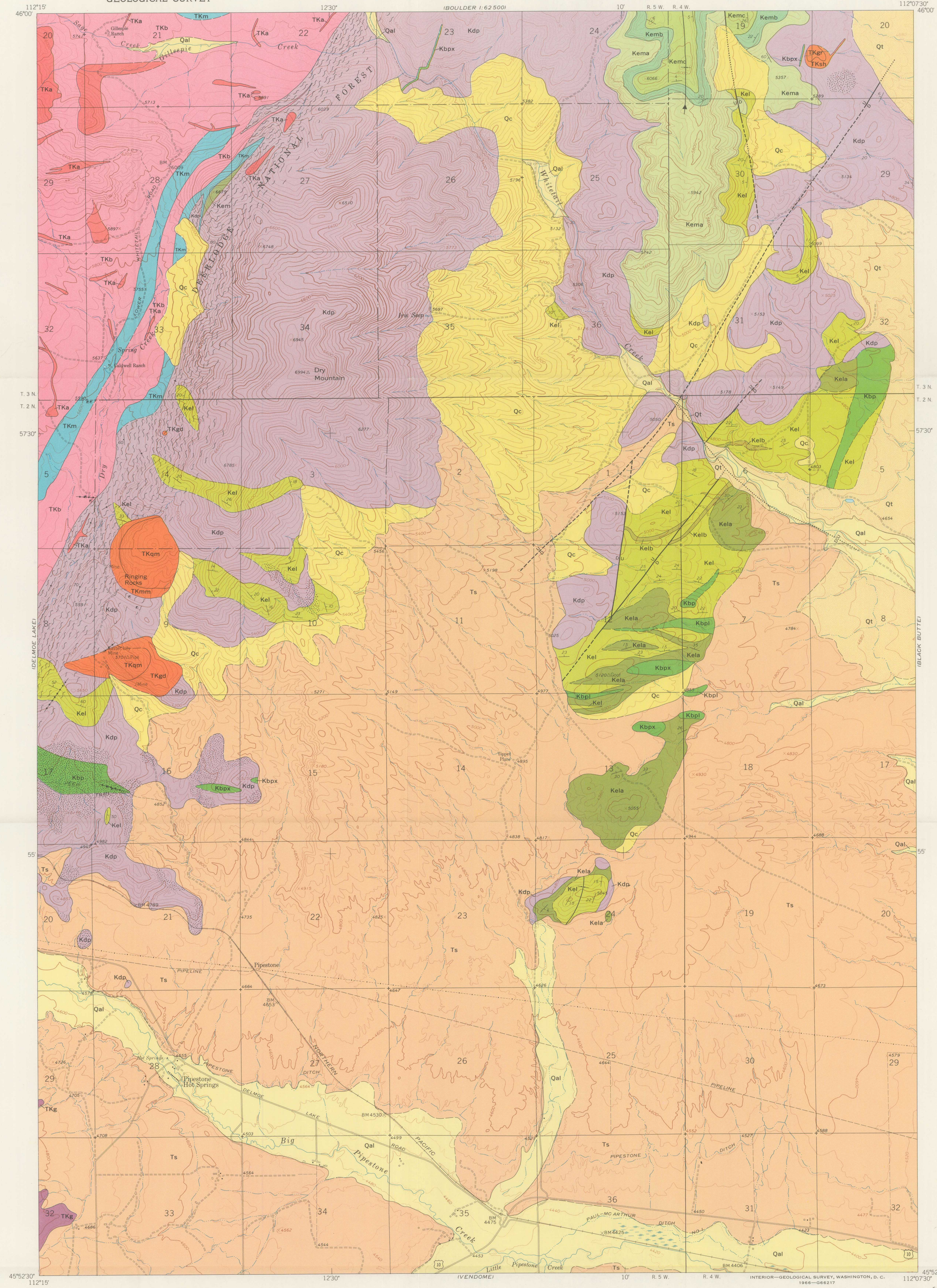
UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

BULLETIN 1221-F
PLATE 1

GEOLOGIC MAP OF THE DRY MOUNTAIN QUADRANGLE, MONTANA



Base by U.S. Geological Survey, 1963

Geology by H. J. Prostka, 1963

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.
1966—G66217

APPROXIMATE MEAN DECLINATION, 1966

SCALE 1:24 000

1 ½ 0 1 MILE

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 40 FEET
DOTTED LINES REPRESENT 20-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

EXPLANATION

STRATIFIED ROCKS

QUATERNARY

Pleistocene and Recent

Qal — Alluvium

Qt — Terrace deposits

Qc — Colluvium
Talus, debris flows, slope wash, and landslide debris

SLIGHT UNCONFORMITY

TERTIARY

Lower Oligocene

Ts — Lake and stream deposits
Poorly consolidated light-colored tuffaceous sand, gravel, and clay

ANGULAR UNCONFORMITY

CRETACEOUS

Upper Cretaceous

Elkhorn Mountains Volcanics

Kem — Middle member
Kemc, Kemb, Kema
Kem, *five welded tuff flows, undivided*
Kemc, *unit C; massive pink welded tuff underlain by two thin platy jointed welded tuffs*
Kemb, *unit B; gray massive welded tuff*
Kema, *unit A; pink to orange welded tuff*

EROSIONAL UNCONFORMITY

Kel — Lower member
Kelb, Kela
Kel, *gray, green, and purple coarse- to fine-grained tuff and tuff-breccia, siltstone, and shale*
Kelb, *tuff-breccia, forms resistant marker bed*
Kela, *basalt and agglomerate*

INTRUSIVE ROCKS

Age relations between Boulder batholith and small intrusive bodies not known

CRETACEOUS OR TERTIARY

Upper Cretaceous or Paleocene

SMALL INTRUSIVE BODIES

Age relations between units not known

TKgr — Granite
Pink, medium-grained

TKqm — Quartz monzonite
Pink, medium- to fine-grained

TKmm — Monzonite
Coarse-grained, mafic

TKgd — Granodiorite
Gray, medium- to fine-grained

TKsh — Shonkinite
Olivine rich

ROCKS OF THE BOULDER BATHOLITH

TKa — Alaskite, aplite, and pegmatite

TKm — Quartz monzonite
Gray, medium-grained; contains clumps of very fine grained biotite

TKb — Butte Quartz Monzonite
Light-gray to pink, coarse-grained; locally contains megacrysts of K-feldspar

TKg — Granodiorite
Gray, medium- to coarse-grained

CRETACEOUS

Upper Cretaceous

PORPHYRITIC INTRUSIVE ROCKS

Kbp, Kbpl, Kbpx — Dikes, sills, and irregular bodies of basalt
Kbp, *basalt undivided*
Kbpl, *plagioclase phenocrysts conspicuous*
Kbpx, *pyroxene phenocrysts conspicuous*

Kdp — Dikes, sills, and thick sheet of diorite porphyry
Green, gray, and purple; contains phenocrysts of labradorite, pyroxene, and hornblende; locally brecciated or conspicuously banded

Contact
Dashed where approximately located

Fault
Dashed where inferred; dotted where concealed.
U, *upthrown side;* D, *downthrown side*

Syncline
Showing troughline and direction of plunge

Strike and dip of beds and volcanic flows

Strike and dip of foliation

Strike of vertical foliation

Silicified rocks

Strongly sheared and recrystallized rocks

Metalliferous quartz vein

Adit

Vertical shaft